

Supplemental Figure 3 Alignment of *Nematostella* and *Acropora* NF- κ B proteins

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NvNFkB_C  MAQ-SEQQVGSALTESMLNEIIQPGYLPDISALHVPLGTNAEEPSYTEPYLEILEQPKPR  59
NvNFkB_S  MAQ-SEQQVGSALTESMLNEIIRPGYLPDISALHVPLGTNAEEPSYTEPYLEILEQPKPR  59
AmNFkB    MATNSEQQVNATLTDSELLMDVLNPGYLPDISALQVPTG-----SYQGPYLEILEQPKQR  54
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NvNFkB_C  GFRFRYPCEGPSHGGLPGQFSTSKSKSYPSVQVNNYQGPCRIVVTLVTKDEPYMLHAHSL  119
NvNFkB_S  GFRFRYPSSEGPSHGGLPGQFSTSKSKSYPSVQVNNYQGPCRIVVTLVTKDEPYMLHAHSL  119
AmNFkB    GFRFRYPCEGPSHGGLPGEYSE-KGKSYPVQLCNYKGPARIIVVSLVTSDENPMPHAHSL  113
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NvNFkB_C  TGKNANEEGVTVQVGPDQHMTASFPNLGIQHVTKKNVVKVLMDFRIKWQTLQNAATFAKL  179
NvNFkB_S  TGKNANEEGVTVQVGPDQHMTASFPNLGIQHVTKKNVVKVLMDFRIKWQTLQNAATFAKL  179
AmNFkB    IGKNASN-GVTVQIGPEQGMASFPNLGIQHVTKKNVGLVLMDFRYLKMQLHTATLNAL  172
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NvNFkB_C  SEGIKDGVDLSLFGVNTAINSNKLGFDKSVALSVANEEVAKSREYAEQQAAAMDLSAVRL  239
NvNFkB_S  SEGIKDGVDLSLFGVNTAINSNKLGFDKNVALSVANQEAAKSREYAKQQAAAMDLSAVRL  239
AmNFkB    TIDPR-VFDIGAMVDEATADGDRGEFDKQIADTIAEEEASKVRSLVEKQKNSMNLSVVRL  231
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NvNFkB_C  CFQAYLPDQDGNFTRPLKPVYSDAVLDSKAPSASQLKICRMDKNSGCVTGGDEIYLLCDK  299
NvNFkB_S  CFQAYLPDQDGNFTRPLKPVYSDAVLDSKEPSASQLKICRMDKNSGCVTGGDEIYLLCDK  299
AmNFkB    CFQAYLPDDNGCFTKALPPCFSRSVYDSKAPSAANLKICRMDRNSGCVTGNDEVYLLCDK  291
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NvNFkB_C  VQKDDIEIHFYEMDDITGKYTWEDLGKFSPCDVHRQFAIVFKTPPYWNIAIERPANVLVE  359
NvNFkB_S  VQKDDIEIHFYEMDDITGKYTWEDLGKFSPCDVHRQFAIVFKTPPYWNIAIERPANVLVE  359
AmNFkB    VQKDDIAVVFYEIDEN-GKRSWEGQLLRP????????????????????????????????  320
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NvNFkB_C  LRRKKNNGGETSEPVQFTYQPQLFDKEAIGAKRRKTVPHFTDFLSGGSSGATGGGGSSVSG  419
NvNFkB_S  LRRKKNNGGETSEPVQFTYQPQLFDKEAIGAKRRKTVPHFTEFLSGGSSGATGGGGSSVSG  419
AmNFkB    ?????????????????????????????????????????????????????????????

NvNFkB_C  FNFPADFLQQGVFSTQNPSNM  440
NvNFkB_S  FNFSADFLQQGVFLTQNPSNM  440
AmNFkB    ?????????????????????????????????????

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